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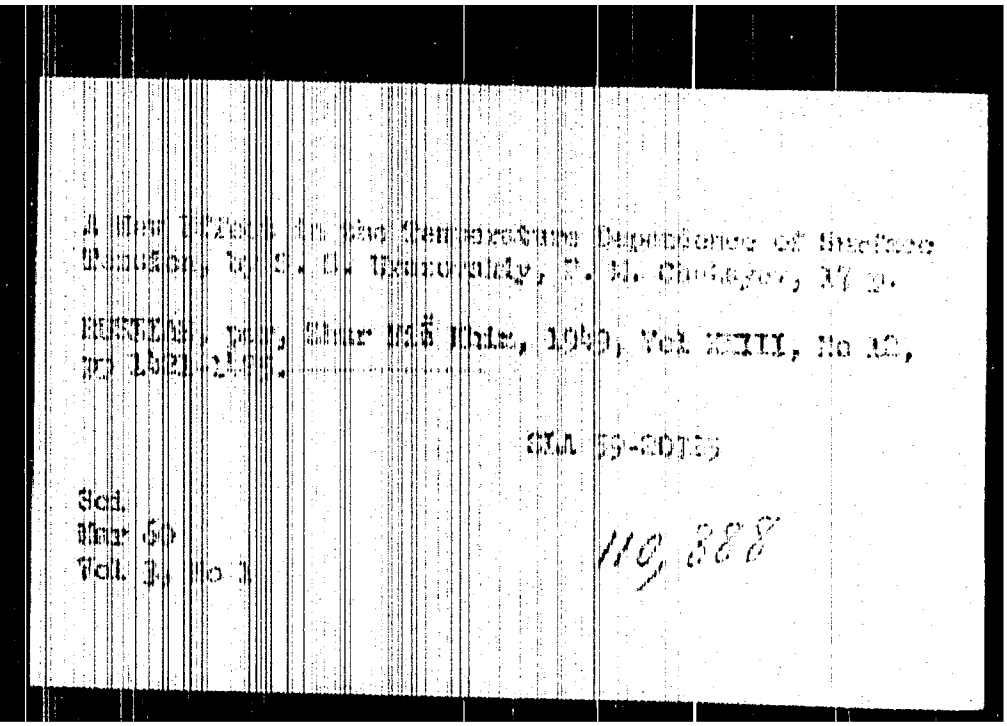

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Order from OTS, SLA, or ETC $2.60 TT-63-20437

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DESCRIPTORS: *Fused materials, *Magnesium compounds, *Chlorides, *Potassium compounds, *Sodium compounds, Thermodynamics.

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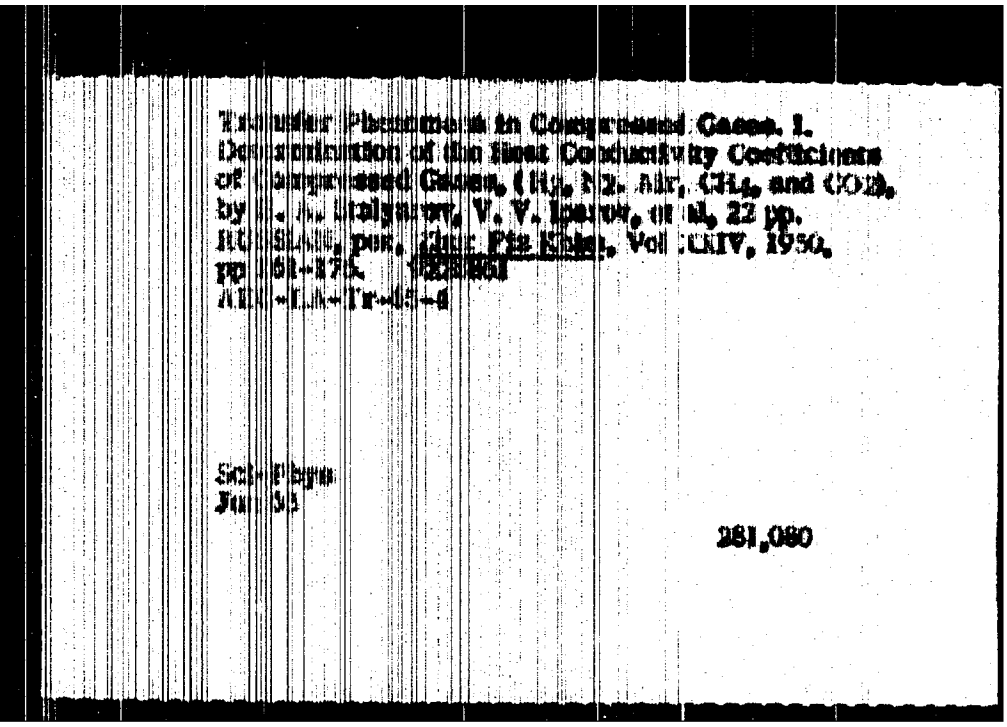

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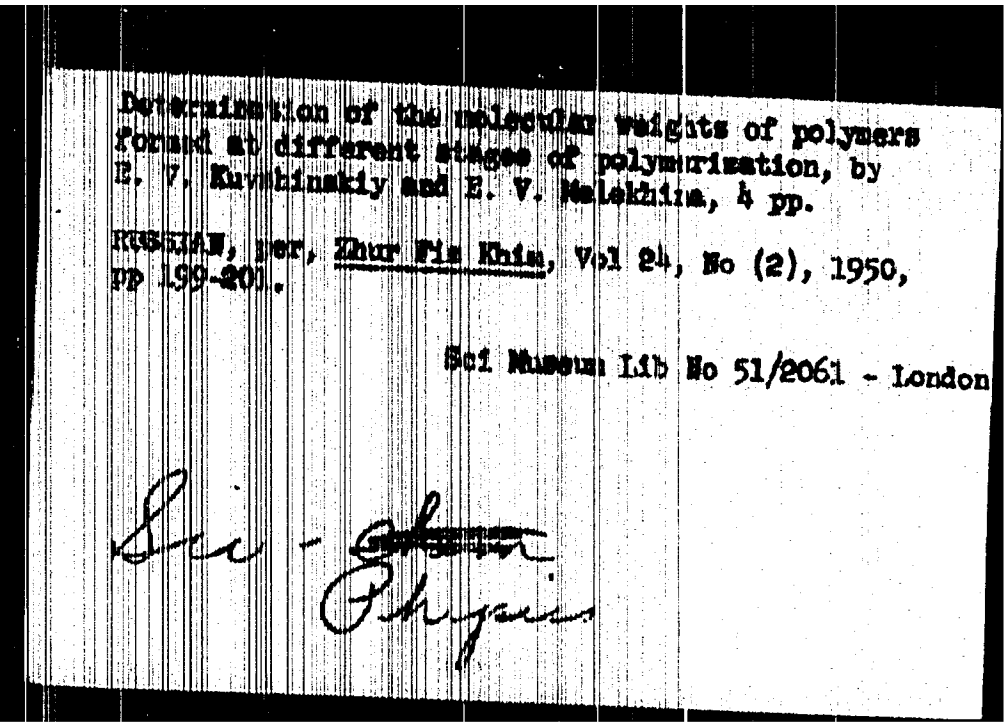

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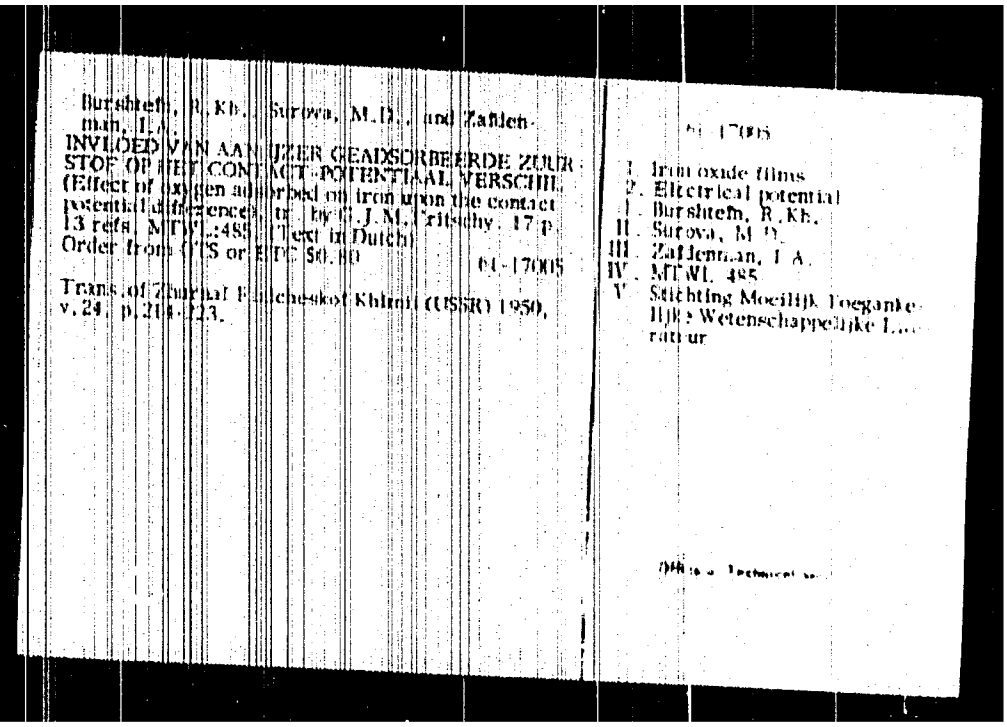

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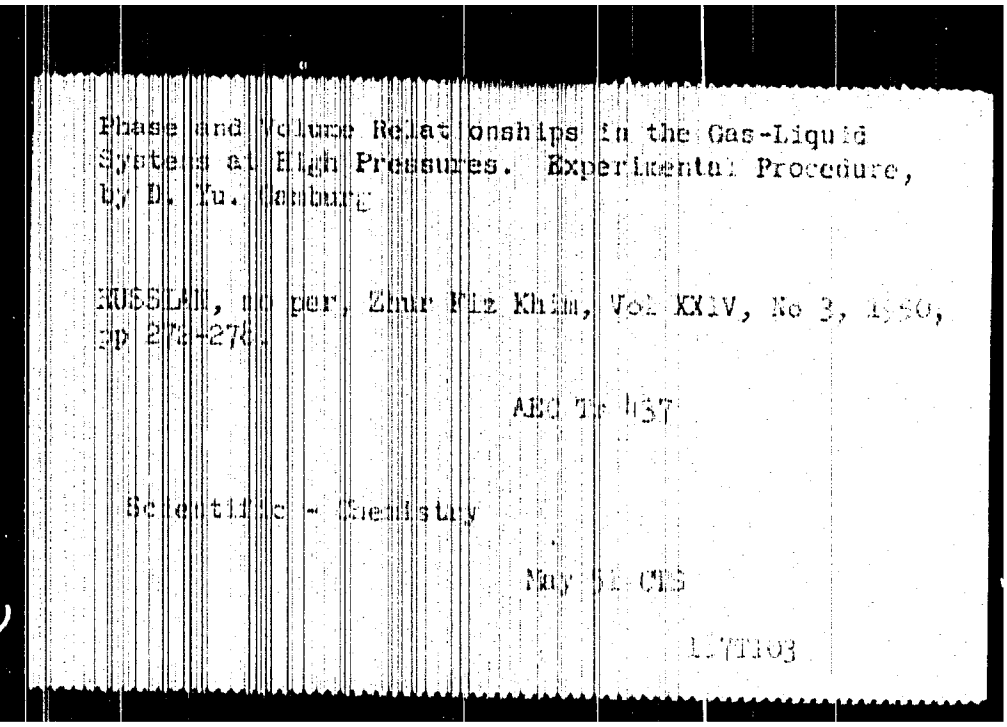

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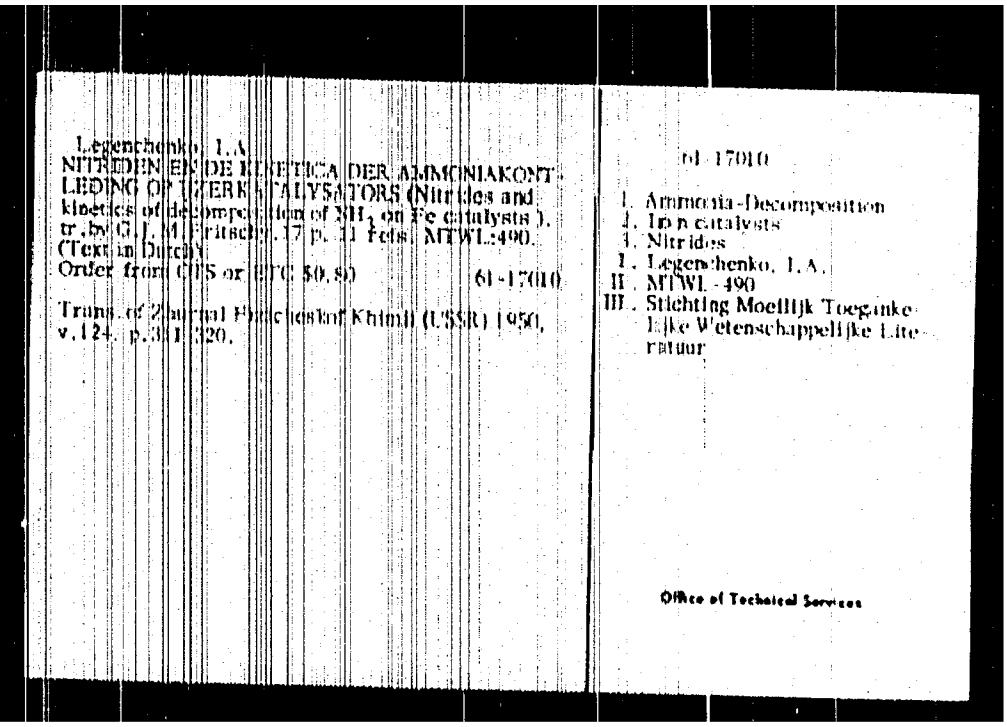

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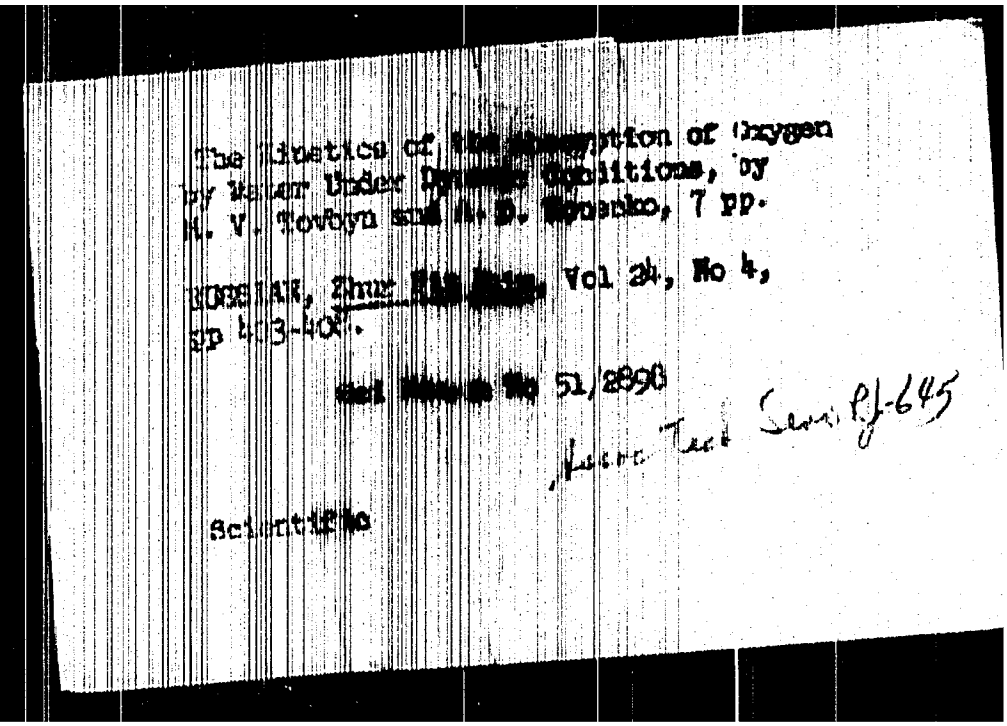

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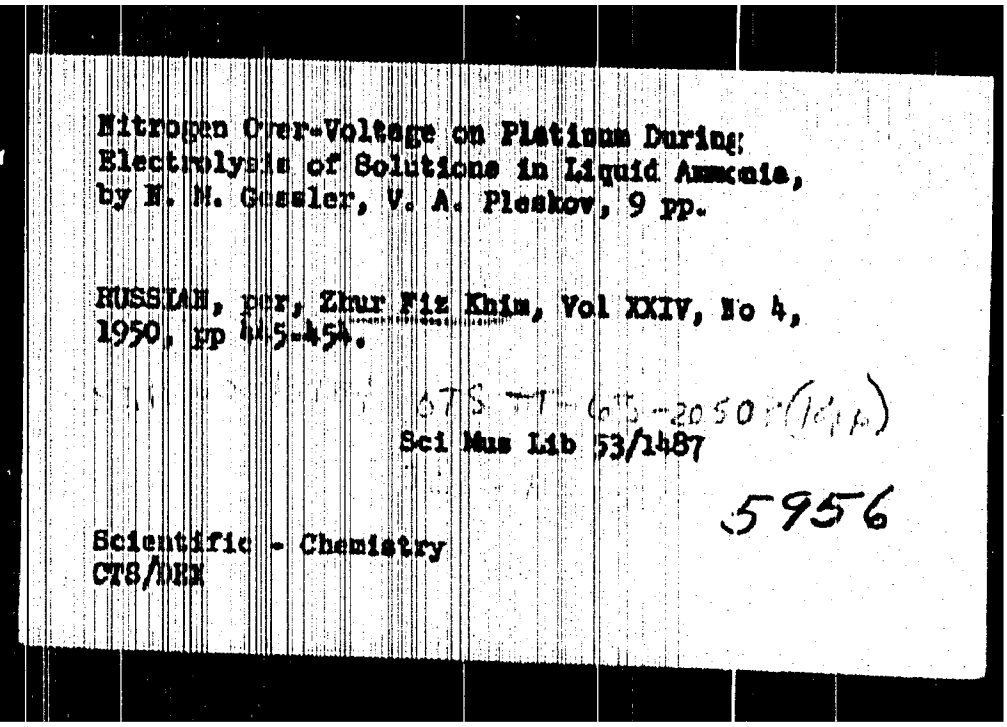

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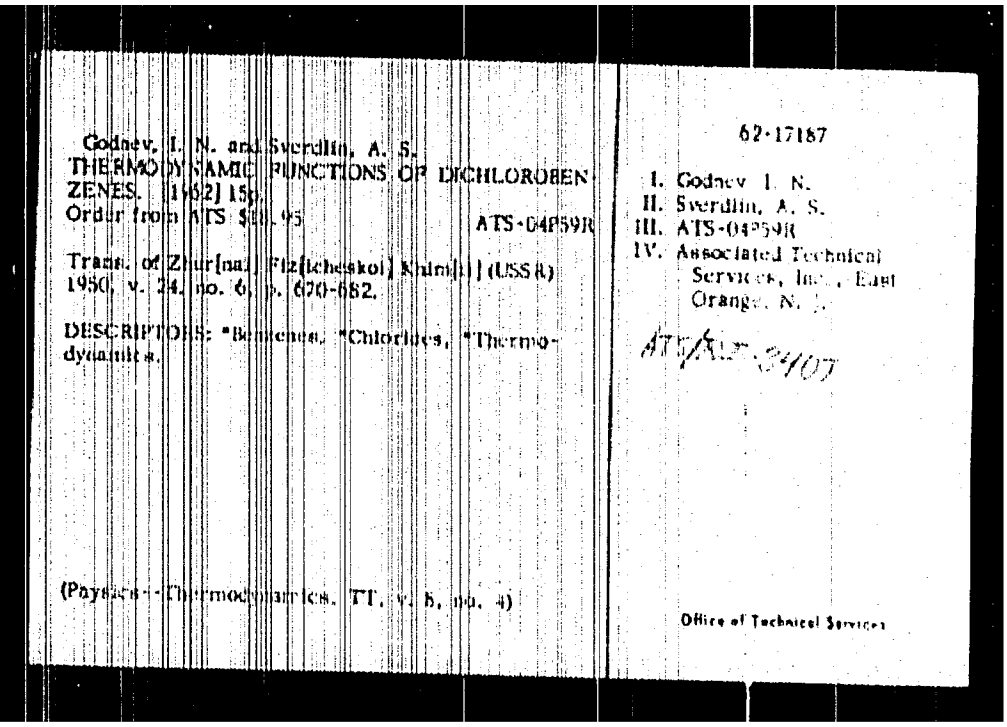

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Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR)
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DESCRIPTORS: *Benzenes, *Chlorides, *Thermo-
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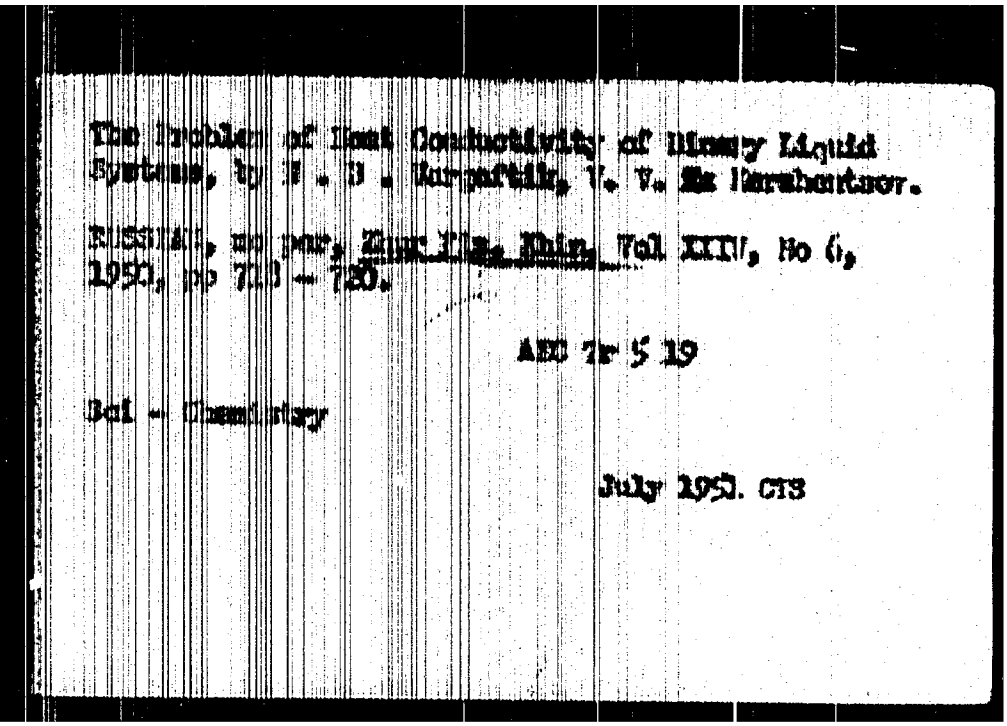

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AEC Tr 1165
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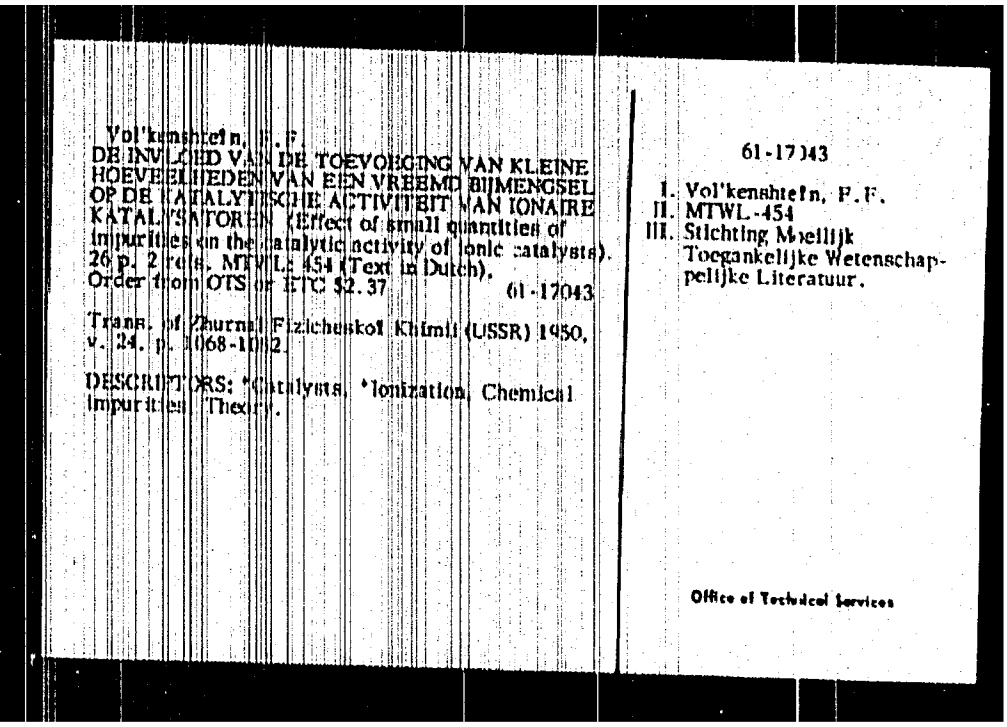

Vol'kenshtein, F. F.
DE INVLOED VAN DE TOEVOEGING VAN KLEINE HOEVEELHEDEN VAN EEN VREEMD BIJMENGSEL OP DE KATALYTISCHE ACTIVITEIT VAN IONAIRE KATALYSATOREN. (Effect of small quantities of impurities on the catalytic activity of ionic catalysts). 26 p. 2 refs. MTWL: 454 (Text in Dutch). Order from OTS or ITC $2.37 61-17043

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950, v. 24, p. 1068-1082.

DESCRIPTORS: *Catalysts, *Ionization, Chemical Impurities, Theory.

61-17043

I. Vol'kenshtein, F. F.
II. MTWL-454
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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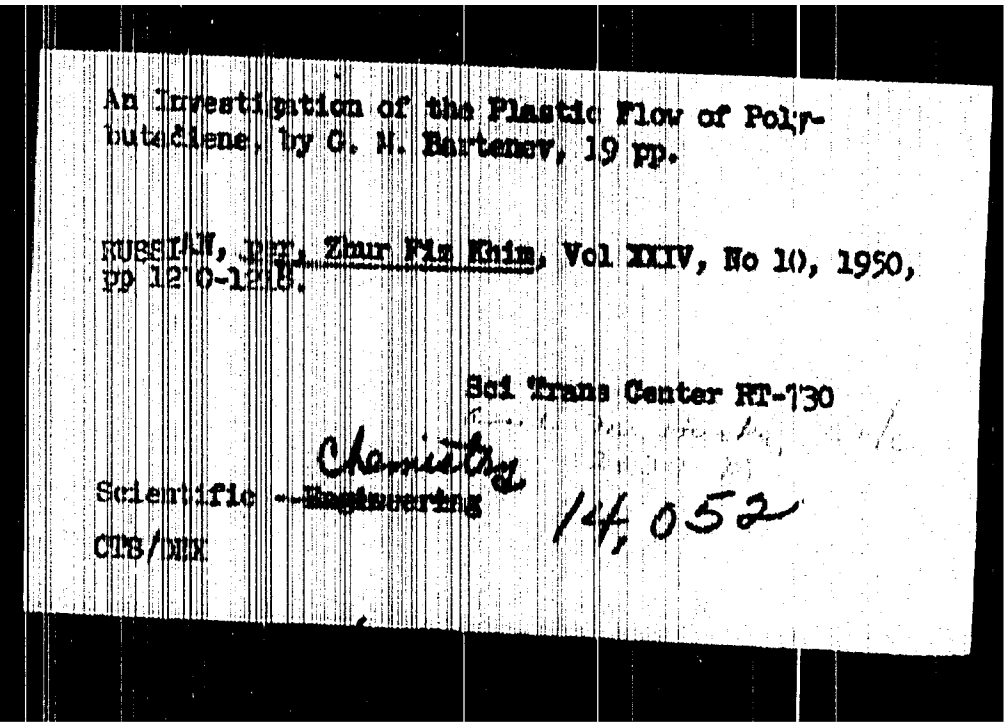

An Investigation of the Plastic Flow of Polybutadiene, by G. M. Bartenev, 19 pp.

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Sci Trans Center RT-730

Scientific -- Engineering Chemistry

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Stabilization of Excited Molecules of Aromatic Compounds During Collisions, by B. S. Neporent, 27 pp.

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Natl Res Council TT-563

Sci - Chemistry, Physics

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The Kinetics of the Transformation of Polymorphous Modifications of Ammonium Nitrate. I. The General Character of the Kinetics of the Transformation of Modification IV to Modification III., by B. V. Erofeyev, M. I. Kitaikevich, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol X XXV, No 10, 1950, pp 1235-1251.

Bel Mus Lib No 56/2537

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Bel - Physics

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Mchedlov-Petrosyan, O. P.
THERMODYNAMIC STUDY OF SOLID PHASE REACTIONS IN MAGNESIUM SILICATE SYSTEMS. [1963]
7p (figs omitted).
Order from K-H $7.00 K-H 3980 b

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950, v. 24, no. 11, p. 1299-1301.

DESCRIPTORS: *Silicates, *Magnesium compounds, Chemical reactions, Phase studies, Solids, Thermodynamics

(Physics--Thermodynamics, TT, v. 11, no. 2)

TT-63-22806

I. Mchedlov-Petrosyan, O. P.
II. K-H-3980-b
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Kinetics of Ammonia Synthesis at High Pressures, by M. I. Temkin, 16 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 11, 1950, 1312-1325.

Asso Tech Svc 82J15K

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OTS 62-26906

Aug 50

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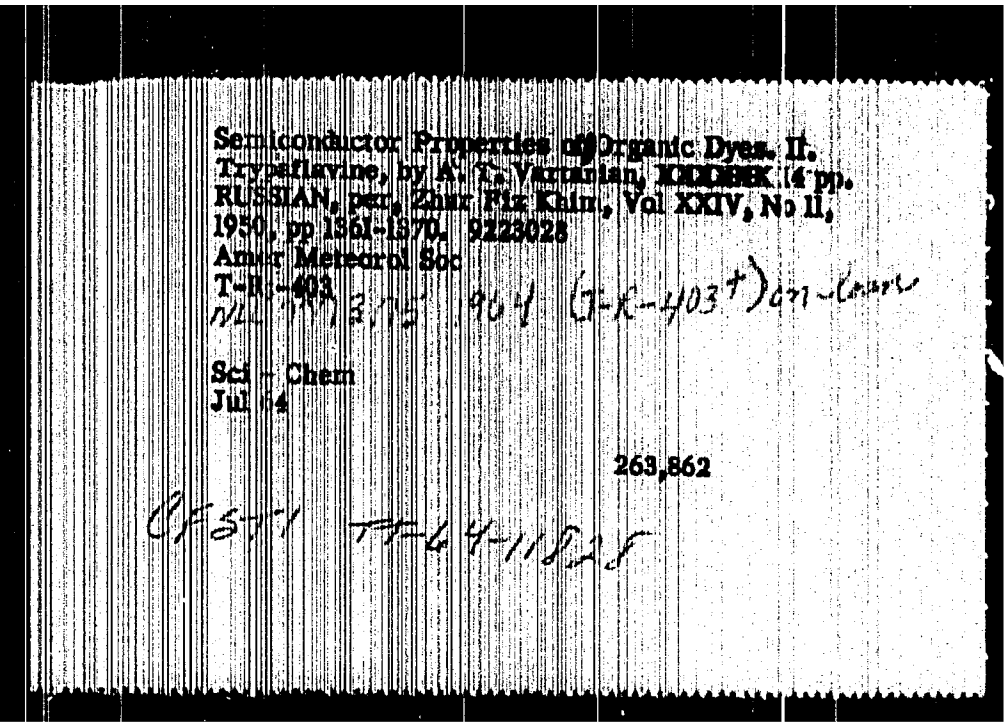
Reverse Trans to FRENCH:
by OTS-62-26906

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0



Semiconductor Properties of Organic Dyes. II. Trypaflavine, by A. T. Vartanian, XXXXXXX (4 pp. RUSSIAN, per. Zhur. Fiz. Khim., Vol XXIV, No 11, 1950, pp 1361-1370. 9223028
Amer Meteorol Soc
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NL 1941 (T-K-403+) am-Lowrie

Sci - Chem
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QF57-1 TT-64-11024

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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New Methods for the Measurement of the Specific Surface (in $CM^2$) Pt. 1, by B.V. Deryagin, V. I. Krylova, et al. 30 pp.
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SLA TT-64-18062

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The Diffusion of Linear Polymers. I. Measurement of the Diffusion Coefficient, by K. V. Chmutov, I. Ya. Slonim,
RUSSIAN, per. Zhur Fiz Khim, Vol XXIV, No 11, 1950, pp 1383-1389.
AEC-tr-T-61-257

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Letter to the Editor Concerning the Anomalous Magnetic Properties of Certain Peroxides, by A. B. Nalding, I. A. Kazarnovskii.

Full translation.

RUSSIAN, per. Zhurnal Fizicheskoi Khimii, Vol 24, 1950, pp 1407-1408

AEC Tr 1227

Scientific - Chemistry

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The Effect of Heat Treatment on the Catalytic Properties of Silica Gel, by V. A. Dzieko.

RUSSIAN, np per, Zhur Fiz Khim, Vol XXIV, No 12, 1950, pp 1416-1419.

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Scientific - Chemistry Jan 56 CIS/DEX

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Theory of Electro-Reduction of Organic Compounds, by L. I. Antropov.

RUSSIAN, pub. Zhur Fiz Khim, Vol XXIV, 1950, pp 1428-1436.

CSIRO

Sci - Electron, Chem
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The Elasticity of Crystals Near the Melting Point, by G. M. Bartenev, 8 pp.

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AF Cambridge Res Center

Sci - Astron

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Chemical Adsorption Polarization and Cathodic Deposition of Alloys From Non-Complex Electrolytes, by M. A. Loshkarev, N. P. Grechukhina.

Full translation.

RUSSIAN, Pub., Zhur Fiz Khim, Vol XXIV, USSR, 1950, pp 1502-1510.

AEC Tr 1399

USSR
Scientific - Chemistry, polarization, alloys, electrolytes

Oct 52 CTS/DBX

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Electrochemical Behavior of Metals Under Passivating Conditions, by Ya. M. Kolotyrkin, V. M. Knyazheva,

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Sci - Phys, Chem

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Electrical Conductivity, Viscosity, and Density of Aqueous Solutions of Orthophosphoric Acid, by S. I. Sklyarenko, I. V. Smirnov, 7 pp.

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SLA 60-17724

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Contributions to the Theory of Intermediates in Homogeneous Catalysis. III. Kinetics of the Decomposition of $K_3CrO_8$ and Some New Perchromates, by G. A. Bogdanov.

RUSSIAN, per. Zhur Fiz Khim, Vol XXV, No 1, 1951, pp 61-70.

MLL FTD 2270 (Low)

Sci - Chem
Feb 54

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Phase Transitions of the Second Order and the Critical Phenomena, II., The Thermodynamics of the General Case Critical Phenomena, by V. K. Semenchenko
UNCLASSIFIED.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXV, No 1, 1951
pp 121-126.

Sci-Tn Center
TT 242

Scientific - Physics

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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Structure Laws of Atomic Nuclea, by M. M. Venkov, 12 pp
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RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXI, 1951, pp 51-58.

AEC Tr 2038

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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On the Possibility of Detecting a Center of Symmetry of a Crystal by X-ray Analysis, by A. V. Shubnikov. UNCL

Russ (MF), per, Zhur Fiz Khim, Vol XXV, 1951, pp 127, 128.

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Sci - Phys
Feb 53

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

The Theory of XX the Kinetics of Two Consecutive Irreversible Reactions of the Second Order, by A. D. Stepukhovich, L. M. Timonin

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 2, 1951, pp 143-146.

AEC Tr 1159

Scientific - Physics

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Tovbin, M. V. and Kramova, S. L.
STABILITY OF SUPERSATURATED SALT SOLUTIONS.
Berths P. Klenova, tr. 12 Sep 62. 12p 4refs [TVA]-3994.
Order from OTS, $2.0, or ETC $1.60 TT-63-24284

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1951, v. 25 [no. 7] p. 161-169. (Abstract available)

DESCRIPTORS: *Salts, *Solutions, Stability, Temperature, Valence, Solvent action.

The influence of various factors on the stability of supersaturated solutions of a number of salts was investigated. An investigation was made of the stability of supersaturated salt solutions as a function of temperature. A study was also made of the effect of the solvent on the stability of supersaturated salt solutions. The results obtained support the assumption that supersaturated solutions are thermodynamic heterogeneous systems. (Author)

TT-63-24284

1. Title: Supersaturated solutions
I. Tovbin, M. V.
II. Kramova, S. L.
III. TVA-3994
IV. Tennessee Valley Authority, Wilson Dam, Ala.

(Chemistry--Physical, TT, v. 11, no. 5)
Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Kinetics of Chain Decomposition of Ethane at Pressures Above Atmospheric, by Stepukhovich, A. D., and Smirnov, F. M.

RUSSIAN ppr, Zhurnal Fizicheskoy Khimii, 1951, Vol 25, pp 203-211.

#2

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

On the Subject of Free Energy and Entropy Changes in Reactions of Complex-Formation, by K. B. Yatsimirskii, 6 pp.

RUSSIAN, pub, Zhur Fiz,Khim, Vol XXV, No 2, 1951, pp 221-223.

SLA R 1670

Sci

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Concerning Certain Problems of the A. M. Butlerov Theory of Chemical Structure. II. The Chemical Structure of Hydrocarbons and the Relationship in the Energies of Formation, by V. M. Tatevskii.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXV, 1951, pp 241 - 254.

AEC Tr 1101

Sci - Chem

Dec 51 CTS

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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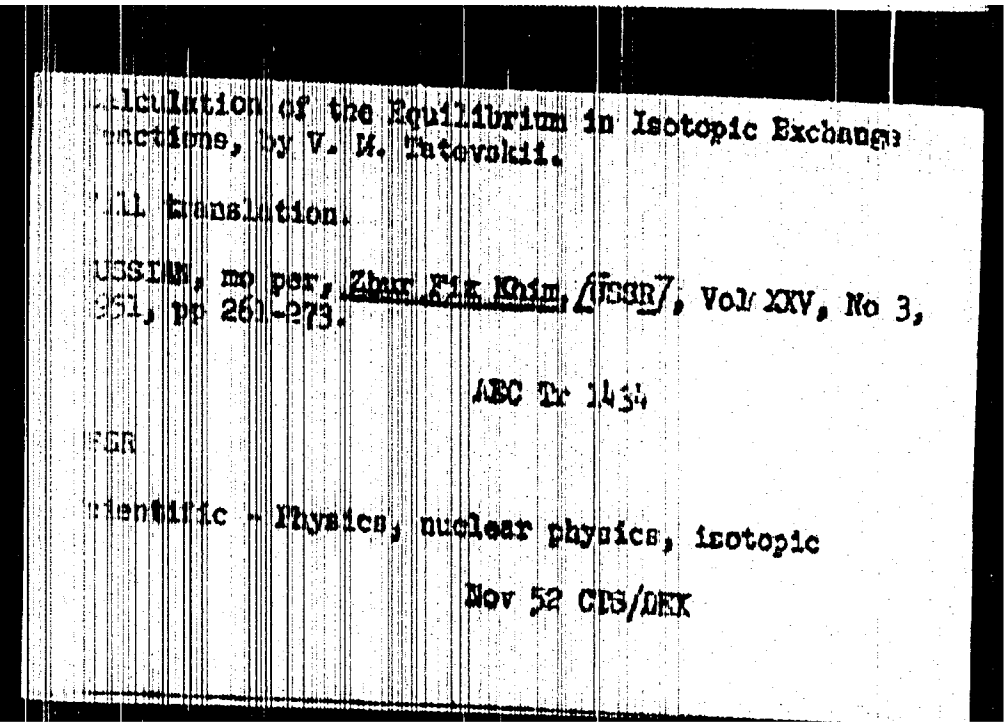

...lculation of the Equilibrium in Isotopic Exchange
...actions, by V. M. Tatevskii.

...ll translation.

USSR, no per, Zhur Fiz Khim, (USSR), Vol XXV, No 3,
...51, pp 261-273.

AEC Tr 1434

...GR

...ientific - Physics, nuclear physics, isotopic

Nov 52 CDS/DEK

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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Application of Lemmas of Similarity to the Estimation of the Vibration Spectrum of Isotopic Molecules, by V. M. Tatevskiy. 18 pp.

RUSSIAN, mo per Zhur Fiz Khim, Vol XXV, No 3 1951, pp 274-282.

Sci Trans Center RT 3187

Scientific - Chemistry, Physical

Feb 56

31,221

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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Polarographic Maxima Due to the Action of an External Electric Field, by T. I. Popova, T. A. Kryukova.
RUSSIAN, Zhur. Fiz. Khim. Vol 25, No 3, 1951, pp 283-292.
MIL Ref: 1732 (1290)

Sci.-Chem
Aug 60

361,704

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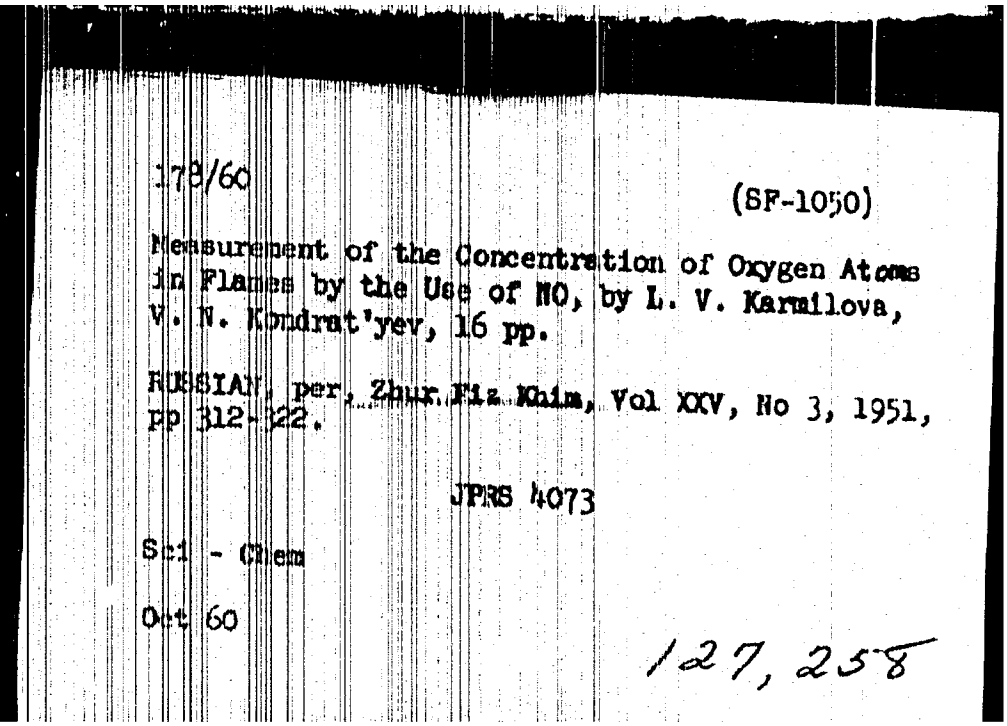

173/60 (SF-1050)

Measurement of the Concentration of Oxygen Atoms in Flames by the Use of NO, by L. V. Karmilova, V. N. Kondrat'yev, 16 pp.

RUSSIAN, per. Zhur. Fiz. Khim, Vol XXV, No 3, 1951, pp 312-322.

JPRS 4073

Sci - Chem

Oct 60

127, 258

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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Phase Transition of the Second Order and the Critical Phenomena. III. The Specific Heat of Liquid Binary Mixtures in the Critical Region of Stratification, by V. K. Semenchenko, V. P. Skripov.

RUSSIAN, no pvr, Zhur Fiz Khim, Vol XIV, 1951, pp 362 - 368.

AEC Tr 1095

Sci - Chem

Dec 51 CTS

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Determination of Single Electrode Potentials in Fused Aluminum Chloride-Sodium Chloride as Solvent, by Yu. K. Delimarskiy, L. S. Berentlyun, K. N. Shelk, 13 pp.

RUSSIAN, Zer, Zhur Fiz Khim, V. 1 XXV, No 4, 1951, pp 39-43.

541 Trans Center
RT-2118

Scientific - Chemistry Sep 55 CTS/DEC

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Kinetics of the Photochlorination Reaction of Benzene, by V. A. Shushunov, G. M. Strongin, M. I. Goryain, A. V. Kukuncv, 8 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXV, No 4, 1951, pp 404-408.

BIA Tr R-561

49, 941

Sci - Chem
Jul 57

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Characteristics of the Combustion of Mixtures of Hydrogen and Bromine, by V. I. Kokochashvili.

RUSSIAN, per: Zhur Fiz Khim, No 25, 1951, pp 444-452

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Sci - Chem

Apr 57 CTS

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178/60 (SF-1050)

Kinetics of Combustion of Carbon, by G. A. Barskiy, Ya. B. Zel'dovich, 23 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 5, 1951, pp 523-537.

JPRS 4074

Sci - Chem

Oct 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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An Equation of the Physical State of Matter in Partial Derivatives, by P. F. Ivanov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 5, 1951, pp 529-541.

ATS RJ-1270

Sci - Phys, Chem
Apr 60

114 572

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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Absorption of Oxygen on Platinum During Polarization by the Cathodic Curves, by Sh. I. Zalkind, and S. V. Ershler.

Tr.

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, USSR, 1951, pp 565-576.

AEC Tr 1300

Scientific - Chemistry

Jun 52 CTS DEX

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

The Determination of the Effective Coefficients of the Vibrations of Polyatomic Molecules, I. Effective Coefficients for Methane, Deuteromethanes, Ethane and Deuteroethanes, by P. G. Mialov, S. A. Antipina

RUSSIAN, Zur. Fiz. Khim., Vol XXV, No 5, 1951, pp 594-605.

4092

Sci Tr Center TT 292

Scientific - Chemistry
CTS/mkr

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Certain Relationships in the Kinetics of the Oxidation of Methanol into Formaldehyde on a Silver Catalyst, by I. M. Vlodavets, S. Ya. Peshezhetskiy

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, 1951, pp 612-623.

AEC Tr 1612
Scientific - Chemistry Jun 53 CTS/DKK

3163

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

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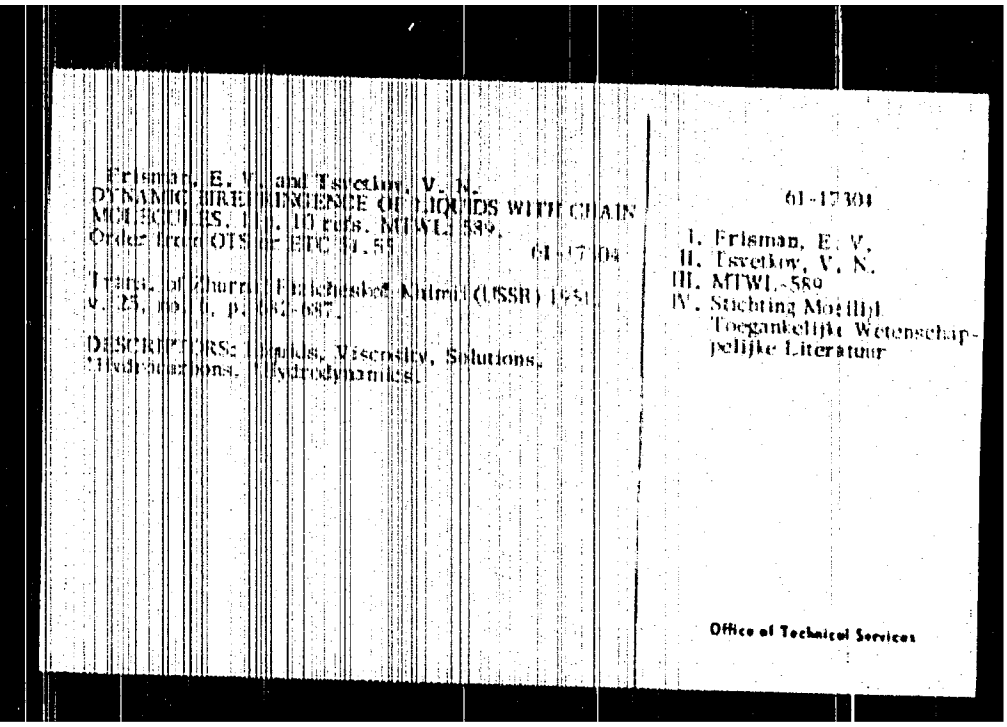

Frisman, E. V. and Tsvetkov, V. N.
DYNAMIC BIREFRINGENCE OF LIQUIDS WITH CHAIN MOLECULES. 1. . 10 refs. MTWL-589.
Order from OTS for $1.50 61-17304

Trans. of Zhurn. Eksperimen. Teoret. Fiziki (USSR) 1951, v. 25, no. 6, p. 682-687.

DESCRIPTORS: Liquids, Viscosity, Solutions, Vibrations, Hydrodynamics.

61-17304

I. Frisman, E. V.
II. Tsvetkov, V. N.
III. MTWL-589
IV. Stichting Mathijl Toegankelijke Wetenschappelijke Literatuur

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Adsorption of Nitrogen Vapor on Silicagel at Low Temperatures, by V. F. Drawing, A. V. Kiselev, O. A. Likhacheva.

Full translation.

RUSSIAN, no par, Zhur Fiz Khim, Vol XXV, USSR, 1951, pp 710-718.

AEC Tr 1368

Scientific - Chemistry, Nitrogen vapor, Silicagel

Sep 52 CTR/DEK

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660039-0

Spectroscopic Investigation of Solutions of Inorganic Salts in Ketones, by M. A. Slovokhotova,

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 7, 1951, pp 756-778. CIA 9004655

TIL No 4772

Sci - Chemistry

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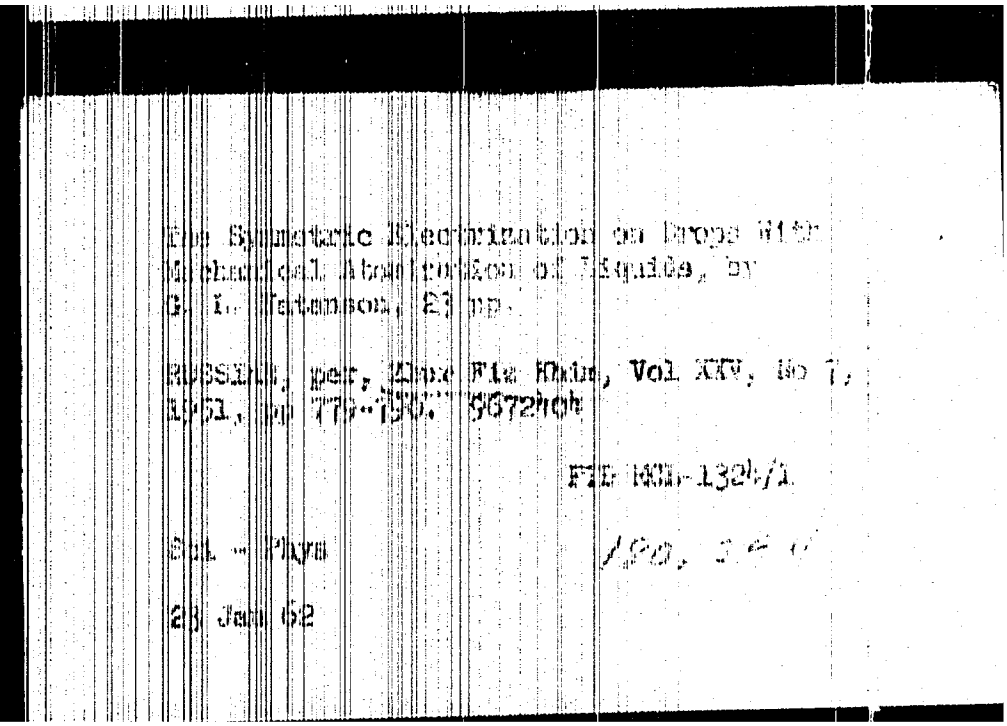

For Symmetric Decomposition on Irreps [illegible]
Method of Abolition of Liquids, by
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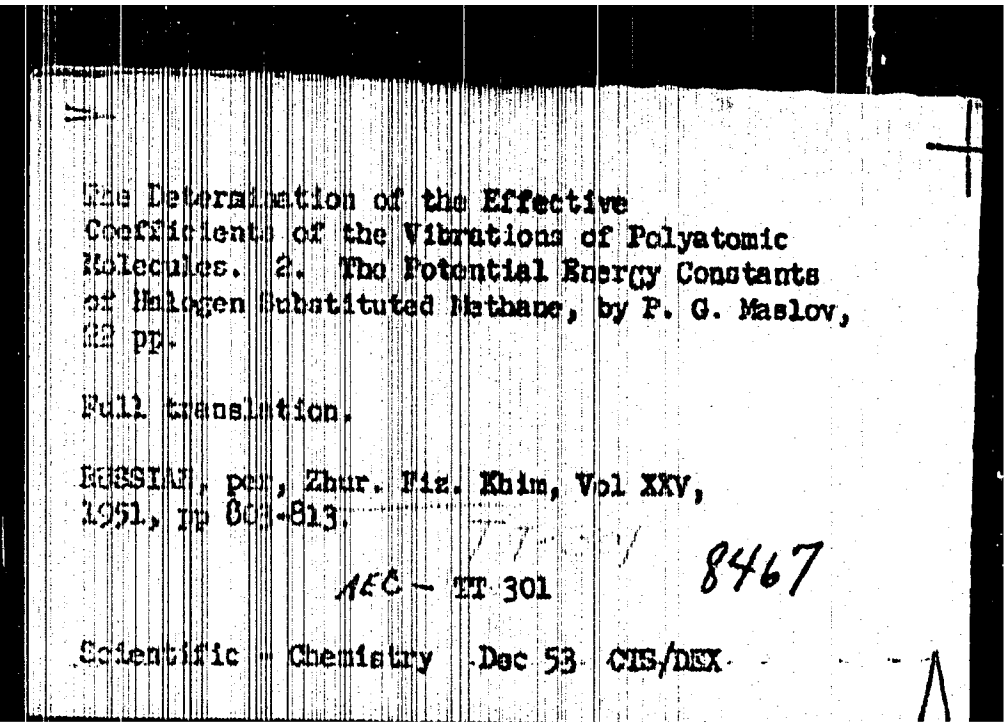

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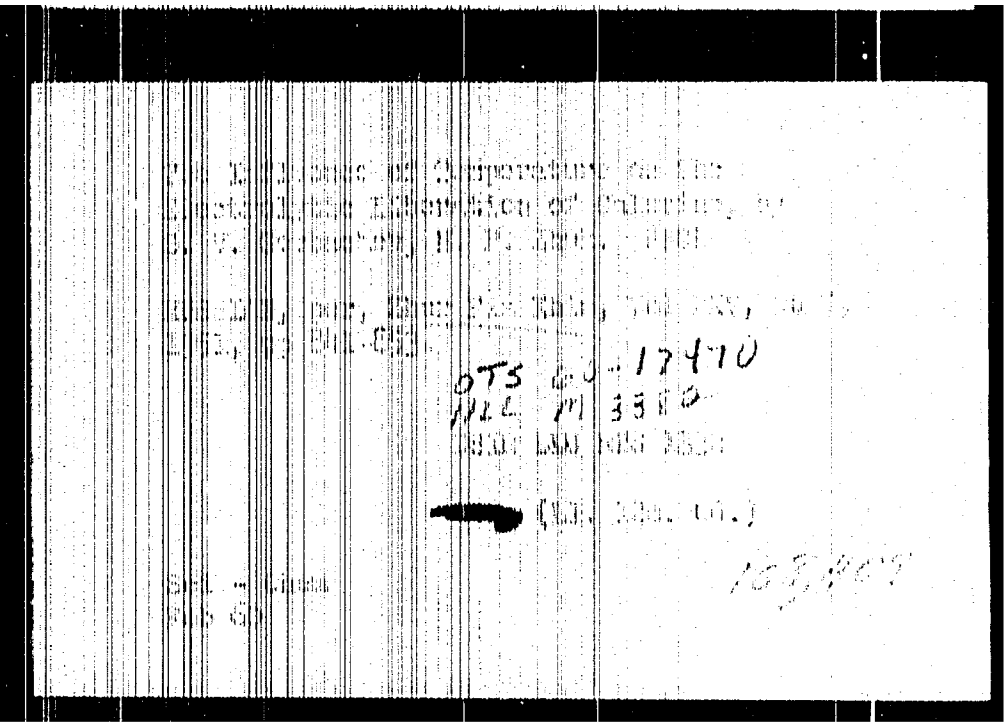

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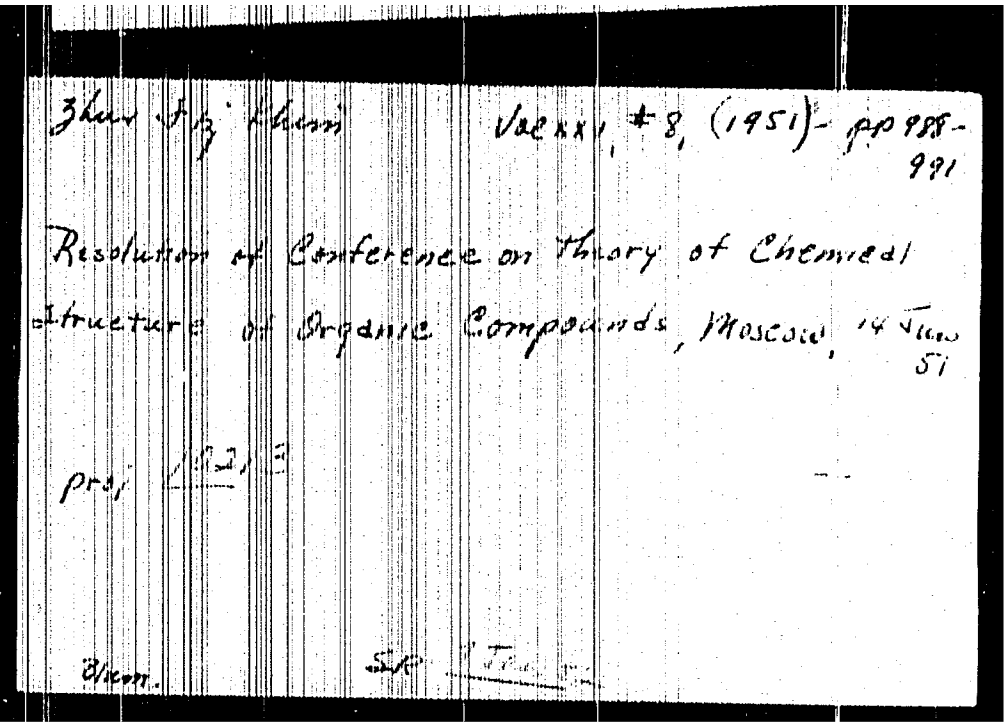

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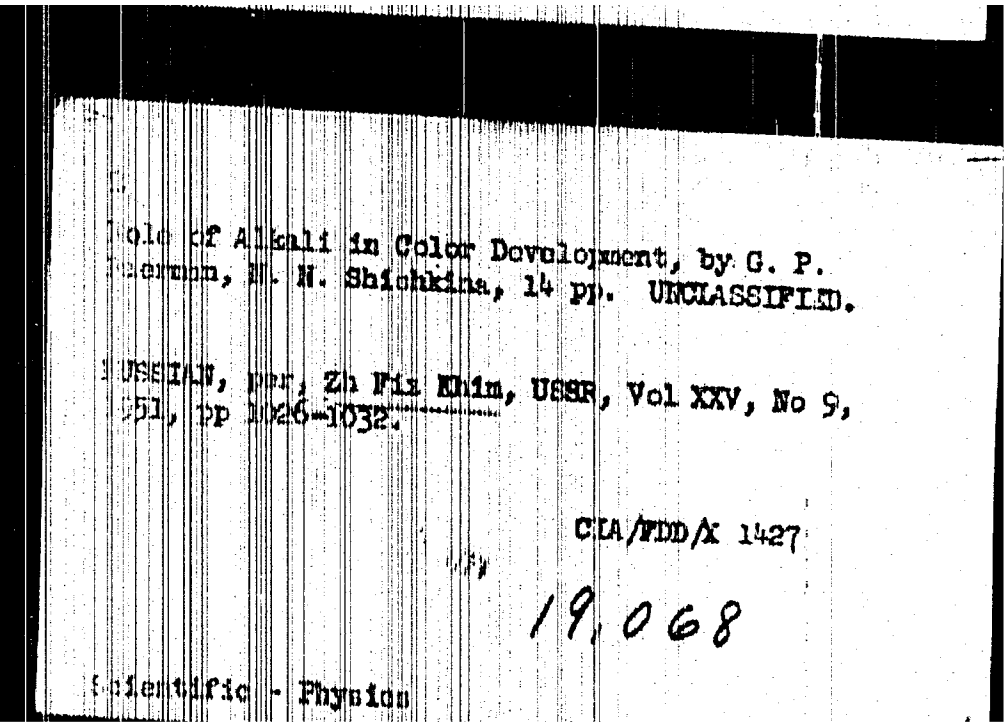

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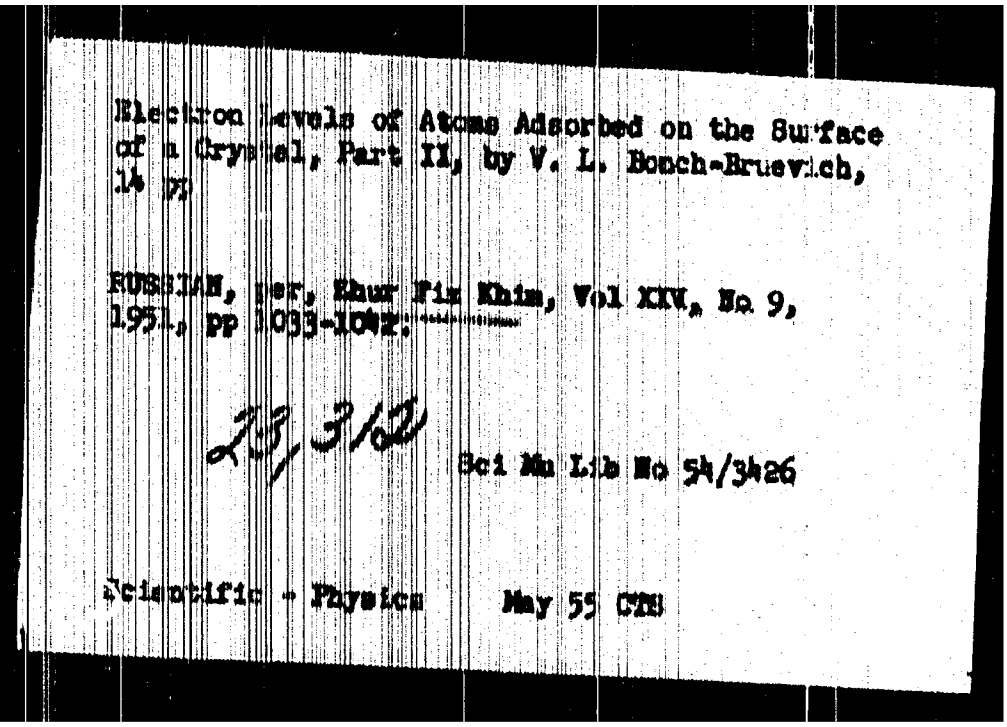

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